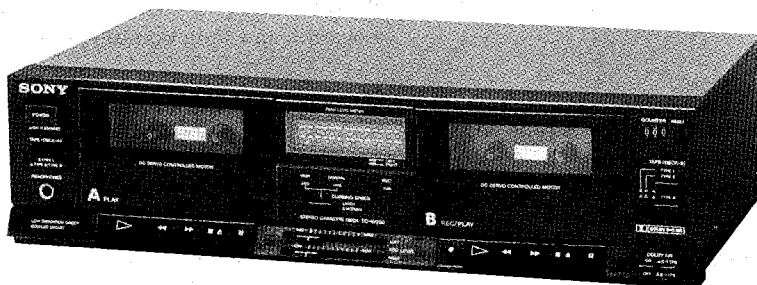


TC-W200

SERVICE MANUAL

G-AEP Model



SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast-forward and rewind time

Approx. 120 sec. (with C-60 cassette)

Bias frequency

105 kHz

Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
Cassette			
TYPE IV (Sony METAL-ES)	58 dB	65 dB	71 dB
TYPE II (Sony UX-S)	56 dB	63 dB	69 dB
TYPE I (Sony HF-S)	54 dB	61 dB	67 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassette)

Frequency response (DOLBY NR OFF)

TYPE IV cassette (Sony METAL-ES)	30 – 15,000 Hz (± 3 dB DIN) 30 – 13,000 Hz (± 3 dB, 0 VU recording) 20 – 14,000 Hz
TYPE II cassette (Sony UX-S)	30 – 14,000 Hz (± 3 dB DIN) 20 – 15,000 Hz
TYPE I cassette (Sony HF-S)	30 – 13,000 Hz (± 3 dB) 20 – 16,000 Hz

Wow and flutter

0.12% WRMS (NAB), $\pm 0.2\%$ (DIN)

Inputs

Connector	Type	Sensitivity	Impedance
LINE IN	phono	77.5 mV (-20 dB)	10 kilohms

Model Name Using Similar Mechanism	DXA-D7
Tape Transport	DECK A
Mechanism Type	DECK B
	TCM-YM47CW-31
	TCM-YM47CW-24

Outputs

Connector	Type	Rated output level	Load impedance
LINE OUT	phono	0.44 V (-5 dB) at load impedance 47 kilohms	over 50 kilohms
HEAD- PHONES	stereo phone	0.3 mW at load impedance 32 ohms	—

General

Power requirements

220 V AC (240 V AC adjustable by authorized Sony personnel), 50/60 Hz

Power consumption

13 watts

Dimensions

Approx. 430 x 115 x 250 mm (w/h/d)
(17 x 4 $\frac{5}{8}$ x 9 $\frac{7}{8}$ inches)
including projecting parts and controls

Weight

Approx. 3.5 kg (7 lbs 12 oz)

Supplied accessories

Connecting ocrd (2)

STEREO CASSETTE DECK
SONY[®]



TC

FEATURES

Double deck


The unit consists of two decks: deck A for playback and deck B for recording/playback.

Two-speed dubbing

Tape dubbing can be performed either at normal speed or at high (double) speed.

Dolby NR* switches

The unit is equipped with switches for the Dolby B-type NR system and for the C-type NR system which reduces tape noise twice as effectively as the B-type system.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY-RELATED COMPONENT WARNING!!


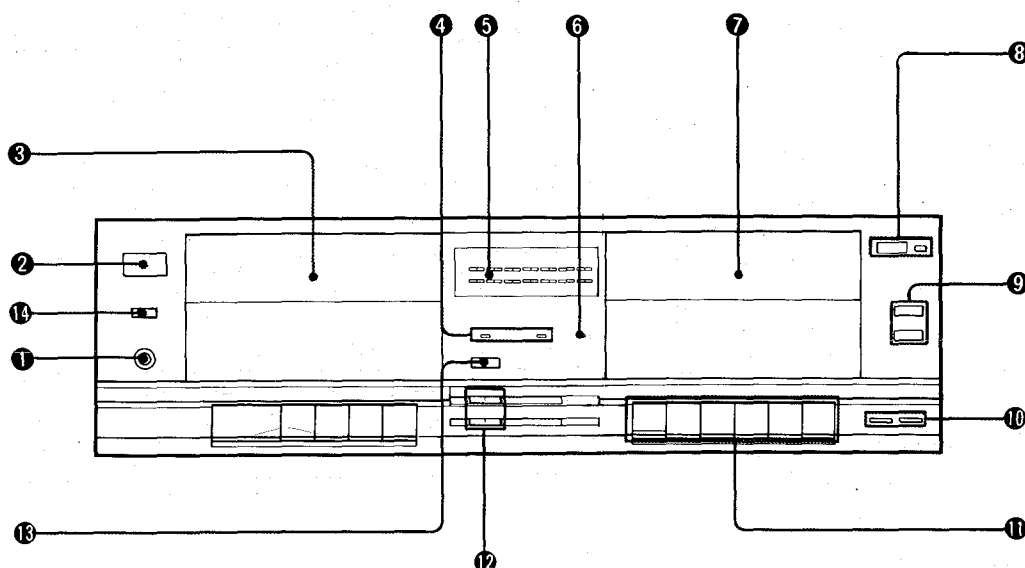
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

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	Location and Function of Control	3
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4.	ELECTRICAL PARTS LIST	19
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LOCATION AND FUNCTION OF CONTROL


1 HEADPHONES jack (stereo phone jack)

2 POWER switch

3 Cassette holder (deck A)

4 SPEED indicators
HIGH or NORMAL lights up according to the DUBBING SPEED switch setting during the tape dubbing.

5 PEAK LEVEL METERS
Show the peak input level of each channel during recording, and recorded levels in the playback mode.

6 REC (record) indicator
Lights up when ● on the deck B is depressed.

7 Cassette holder (deck B)

8 COUNTER (tape counter) and RESET button for deck B
Use the tape counter as a reference when searching for recorded materials. To reset to zero, press the RESET button.

9 TAPE (DECK-B) select switches
Select the tape type used on the deck B.

10 DOLBY NR (Noise Reduction) switches
Select Dolby B or C to record or play back with the Dolby NR system.

11 Tape operation buttons
● REC (record) button (only for deck B)
▷ PLAY button
◀◀ REW (rewind) button
▶▶ FF (fast-forward) button
■▲ STOP/EJECT button
|| PAUSE button

12 REC LEVEL (recording level) controls

13 DUBBING SPEED switch
Depress for high speed dubbing (H HIGH). Press again to return to the normal dubbing speed (N NORMAL).

14 TAPE (DECK-A) select switch
Select the tape type used on the deck A.

SECTION 1 ADJUSTMENTS

1-1. MECHANICAL ADJUSTMENTS PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

Torque Measurement

Torque	Torque ment	Meter reading
FWD	CQ-102C	30 – 70 g·cm (0.42 – 0.97 oz·inch)
FWD Back tension	CQ-102C	1.5 – 5.5 g·cm (0.020 – 0.076 oz·inch)
FF. REW	CQ-201B	63 g·cm or more 0.87 oz·inch)

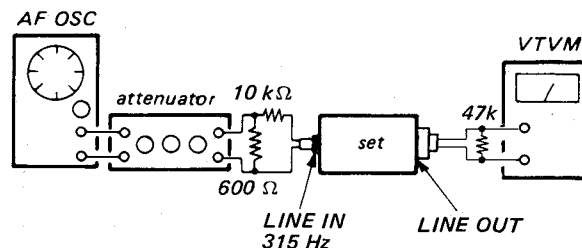
1-2. ELECTRICAL ADJUSTMENTS

1. Demagnetize the record/playback and erase head with a head demagnetizer.
 2. Do not use a magnetized screwdriver for the adjustments.
 3. After the adjustments, apply suitable locking compound to the parts adjusted.
 4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
 5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
 6. The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF

TAPE select switch: TYPE I (NORMAL)
(DECK-B)

Mode: record



Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (–10 dB)

Standard Output Level

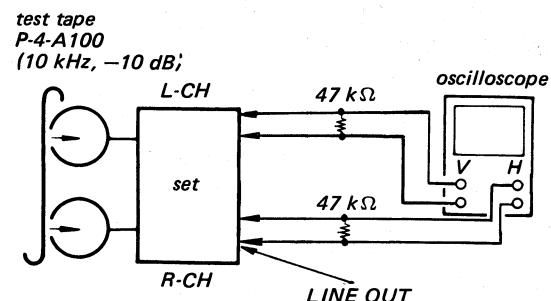
	LINE OUT
load impedance	47 kΩ
output level	0.44 V (–5 dB)

Record/Playback Head Azimuth Adjustment

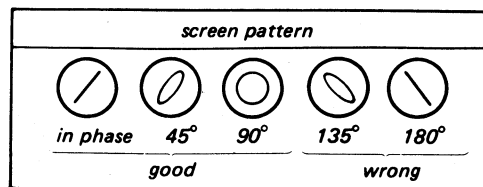
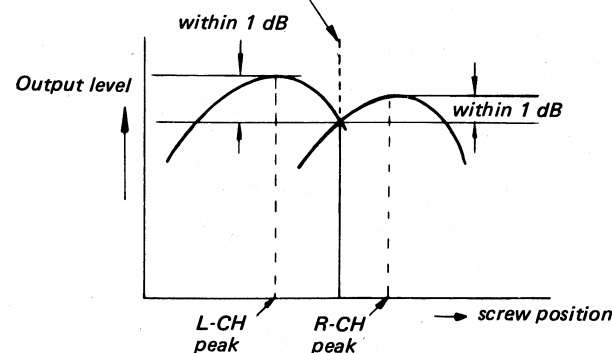
DECK A
DECK B

Procedure:

1. Mode: FWD playback

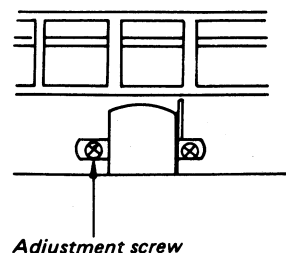


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



3. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:

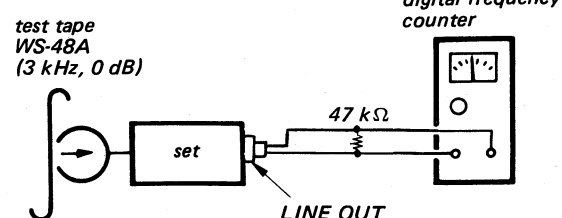


Tape Speed Adjustment

DECK A
DECK B

Procedure:

- Mode: FWD playback



1. Connect pin to with the lead wire. (CN408)

Specification: high speed

Speed checker	Digital frequency counter
0 ± 0.5%	5,980 ± 30 Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (90 Hz).

Adjustment location:

- DECK-A side RV401
- DECK-B side RV403

2. Remove the wire in step 1. (CN408)

Specification: normal speed

Speed checker	Digital frequency counter
0 ± 0.3%	2,980 ± 10 Hz

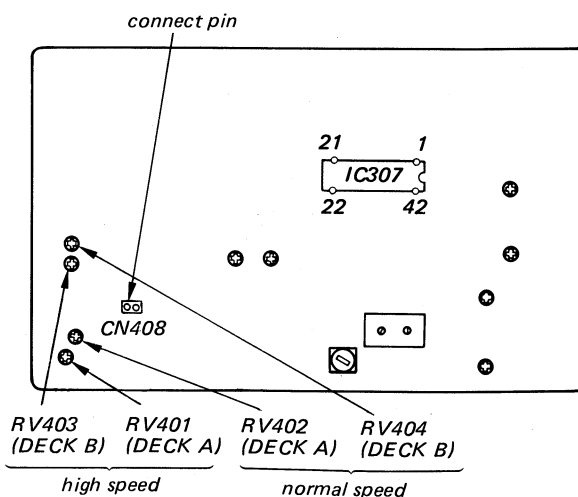
Frequency difference between the beginning and the end of the tape should be within 1.5% (45 Hz).

Adjustment location:

- DECK-A side RV402
- DECK-B side RV404

3. If the specifications are not satisfied, repeat step 1 and 2.

Adjustment Location: audio board

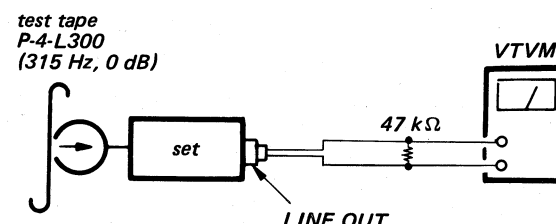


Playback Level Adjustment

DECK A
DECK B

Procedure:

- Mode: FWD playback



Adjust:

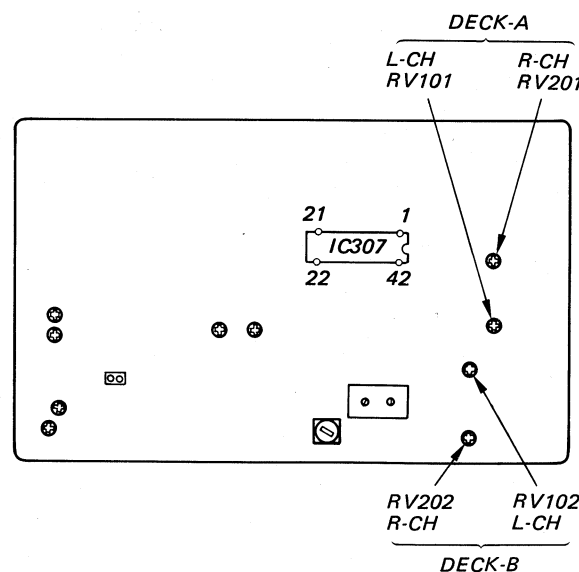
- DECK-A side RV101 (L-CH), RV201 (R-CH)
 - DECK-B side RV102 (L-CH), RV202 (R-CH)
- so that the specifications are satisfied.

Specification:

LINE OUT level: 0.44 V (-5 dB)

level difference between the channels:
within 0.5 dB

Adjustment Location: audio board



Record BIAS Current Adjustment

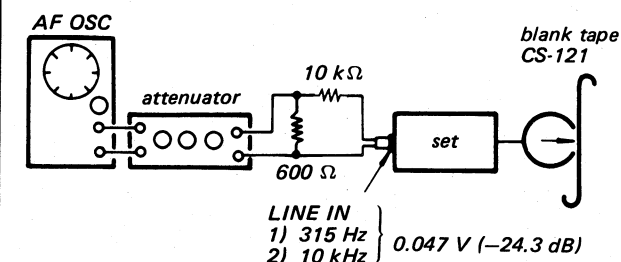
DECK B

Setting:

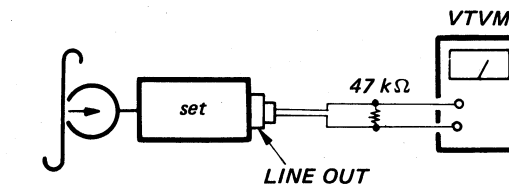
TAPE SELECT: NORMAL (DECK-B)

Procedure:

1. Mode: record



2. Mode: playback

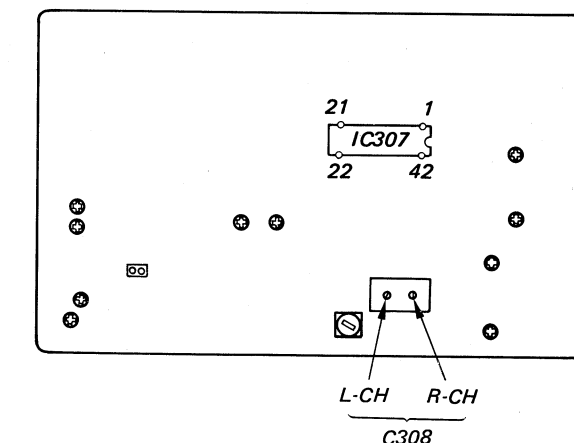


Play back the tape recorded in step 1. If the specification is not satisfied, adjust C308 and repeat steps 1 and 2.

Specification:

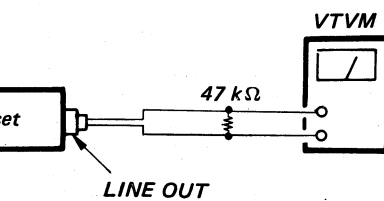
The LINE OUT level of 10 kHz signal relative to that of 315 Hz: -0.5 dB to 0.5 dB.

Adjustment Location: audio board



Adjustment

playback

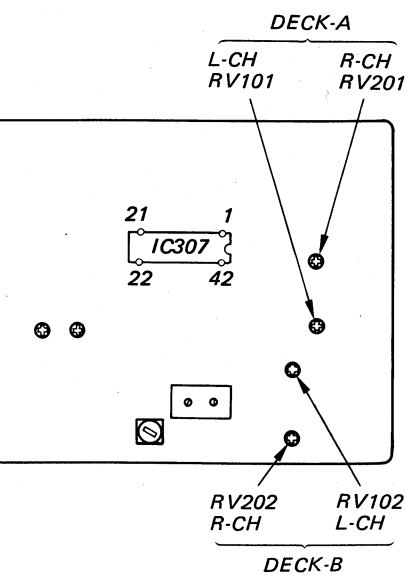


side RV101 (L-CH), RV201 (R-CH)
side RV102 (L-CH), RV202 (R-CH)
specifications are satisfied.

level: 0.44 V (−5 dB)

ce between the channels:

ation: audio board



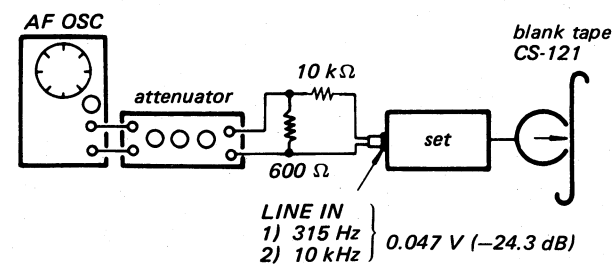
Record BIAS Current Adjustment

Setting:

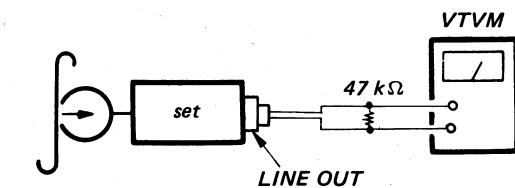
TAPE SELECT: NORMAL (DECK-B)

Procedure:

1. Mode: record



2. Mode: playback

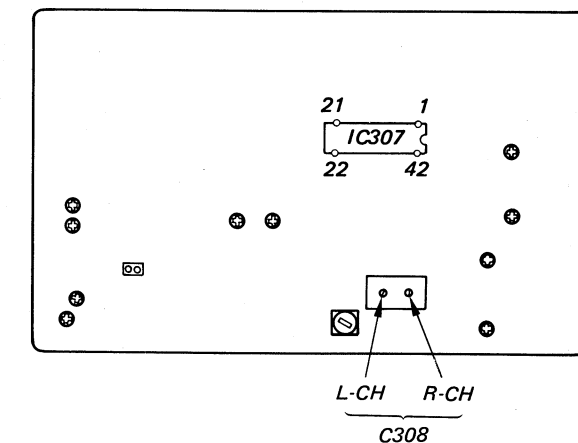


Play back the tape recorded in step 1. If the specification is not satisfied, adjust C308 and repeat steps 1 and 2.

Specification:

The LINE OUT level of 10 kHz signal relative to that of 315 Hz: −0.5 dB to 0.5 dB.

Adjustment Location: audio board



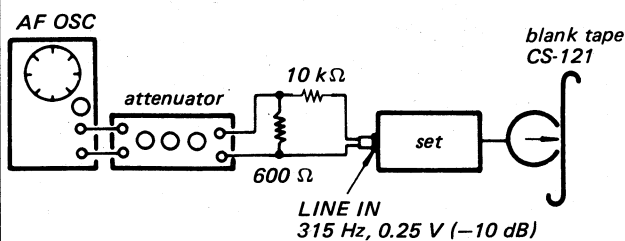
Record Level Adjustment

Setting:

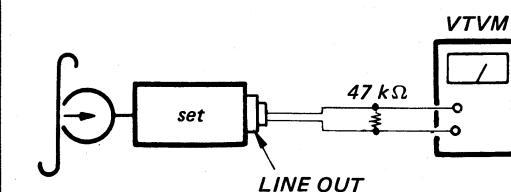
TAPE SELECT: NORMAL (DECK-B)

Procedure:

1. Mode: record



2. Mode: playback

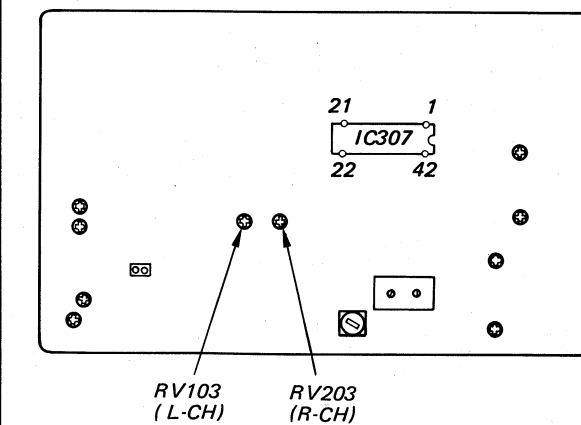


Play back the tape recorded in step 1. If the specification is not satisfied, adjust RV103 (L-CH), RV203 (R-CH) and repeat steps 1 and 2.

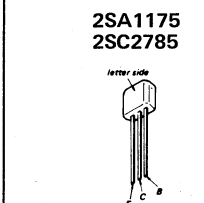
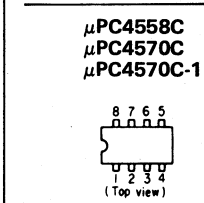
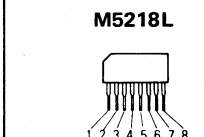
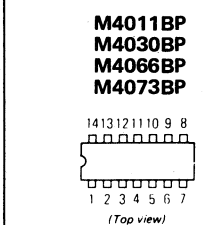
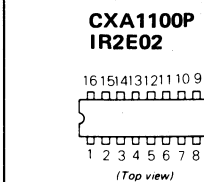
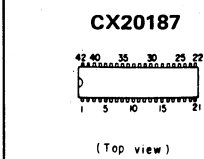
Specification:

LINE OUT level: 0.44 V (−5 dB)

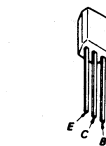
Adjustment Location: audio board



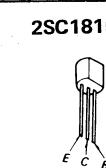
Semiconductor Lead Layouts



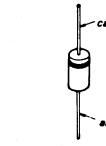
2SA1048GR
2SA1345
2SA1348
2SC634SP
2SC3399
2SC3402



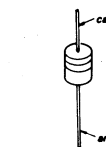
2SB1094-L
2SD1585-K



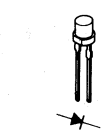
2SC1815GR



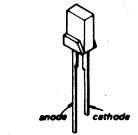
HZS11A1L
HZS6A1L
HZS6B1L



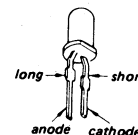
MPG3877S



SEL1120W



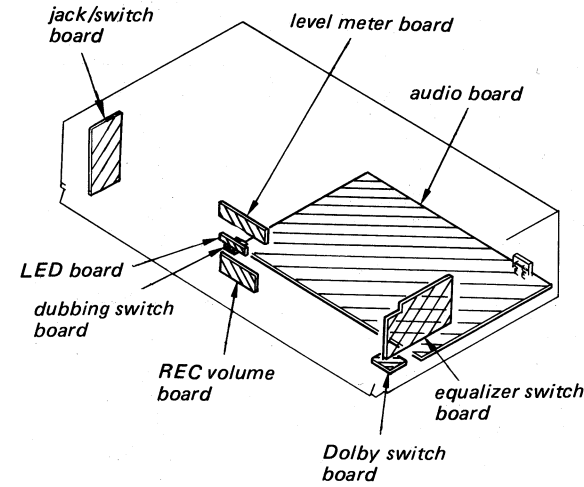
SEL2210W-C



SECTION 2
DIAGRAMS

2-1. MOUNTING DIAGRAM

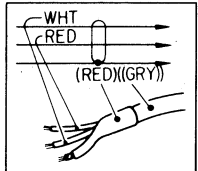
- See page 7 for Semiconductor Lead Layouts.
- CIRCUIT BOARDS LOCATION



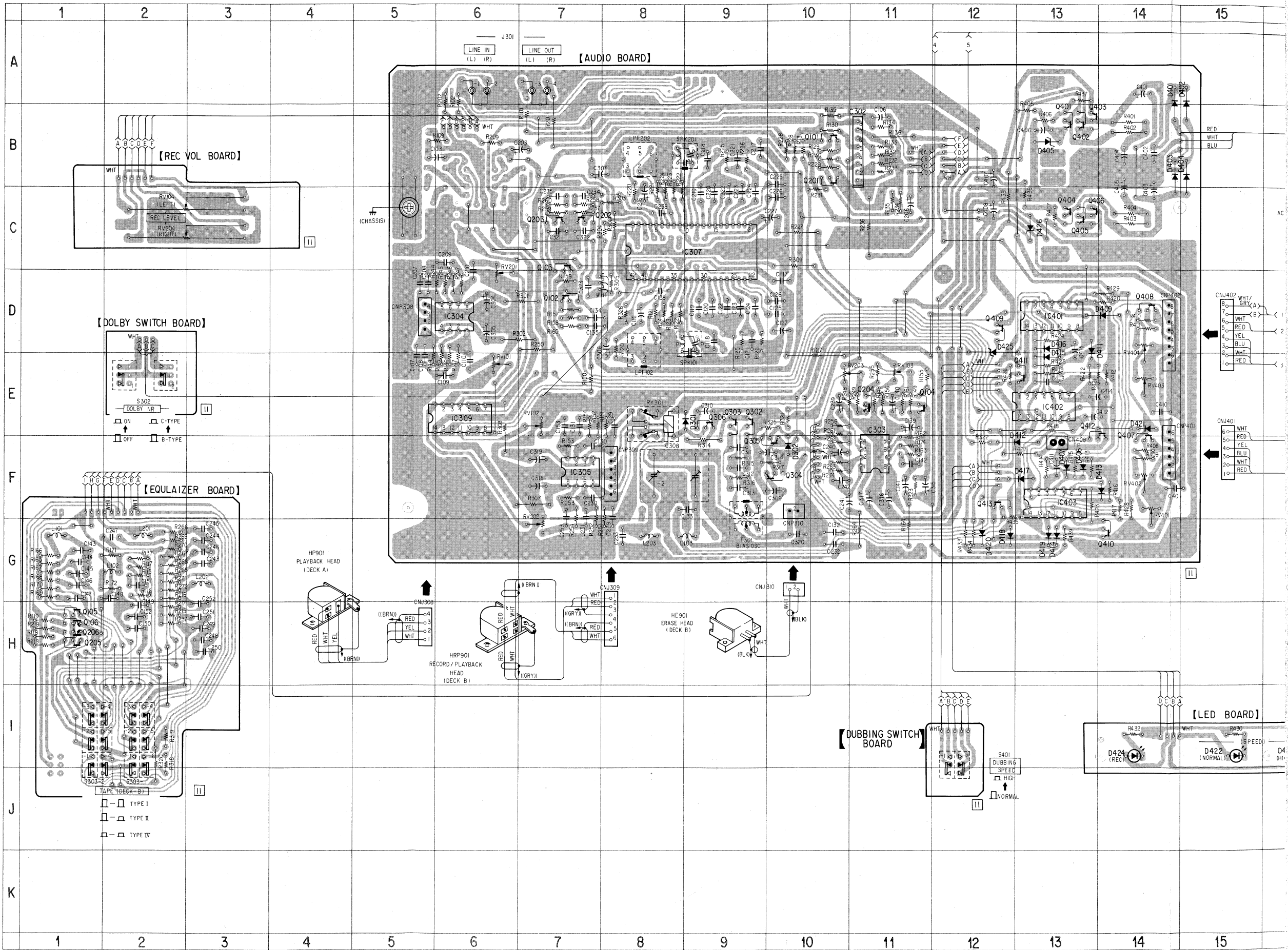
• SEMICONDUCTOR LOCATION

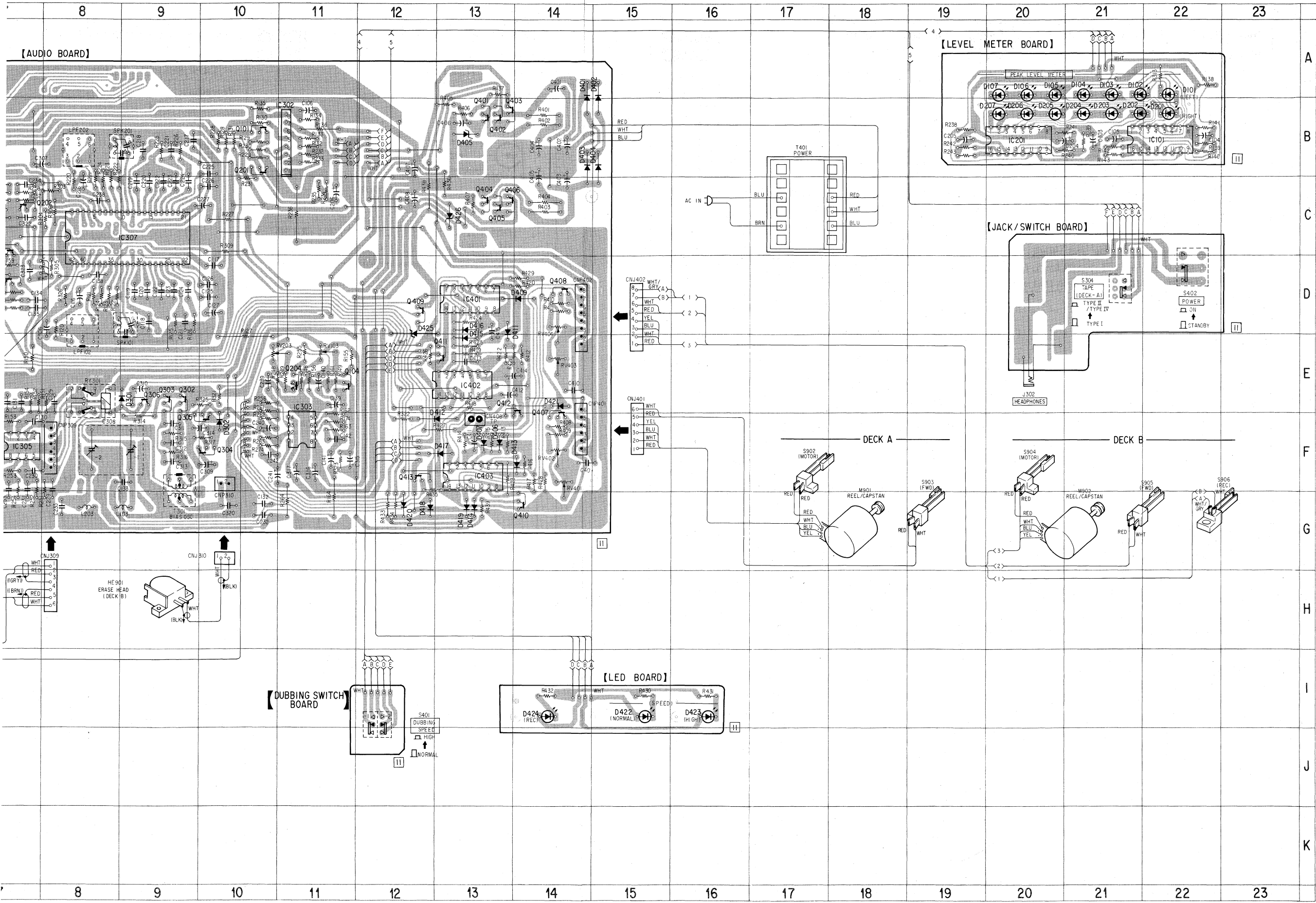
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	A-22	D415	E-13	Q104	E-11
D102	A-21	D416	D-13	Q105	H-1
D103	A-21	D417	F-13	Q106	H-1
D104	A-21	D418	G-12	Q201	B-10
D105	A-20	D419	G-13	Q202	C-7
D106	A-20	D420	G-12	Q203	C-7
D107	A-20	D421	E-14	Q204	E-11
D201	B-22	D422	I-15	Q205	H-1
D202	B-21	D423	I-16	Q206	H-1
D203	B-21	D424	I-14	Q302	E-9
D204	B-21	D425	D-12	Q303	E-9
D205	B-20	D426	C-13	Q304	F-10
D206	B-20			Q305	F-10
D207	B-20	IC101	B-22	Q306	E-9
D301	E-9	IC201	B-20	Q401	B-13
D302	F-10	IC302	B-11	Q402	B-13
D401	A-14	IC303	F-11	Q403	B-13
D402	A-15	IC304	D-6	Q404	C-13
D403	B-14	IC305	F-7	Q405	C-13
D404	B-15	IC307	C-9	Q406	C-13
D405	B-13	IC309	E-6	Q407	F-14
D406	F-13	IC401	D-13	Q408	D-14
D407	F-13	IC402	E-13	Q409	D-12
D409	D-14	IC403	F-13	Q410	G-14
D411	D-13			Q411	E-13
D412	F-13	Q101	B-10	Q412	E-13
D413	F-14	Q102	D-7	Q413	F-12
D414	G-13	Q103	C-7		

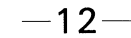
Note:
• Color code or sleeving over the end of the jacket.



- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.









—14—


SECTION 3 EXPLODED VIEWS AND PARTS LIST

NOTE:

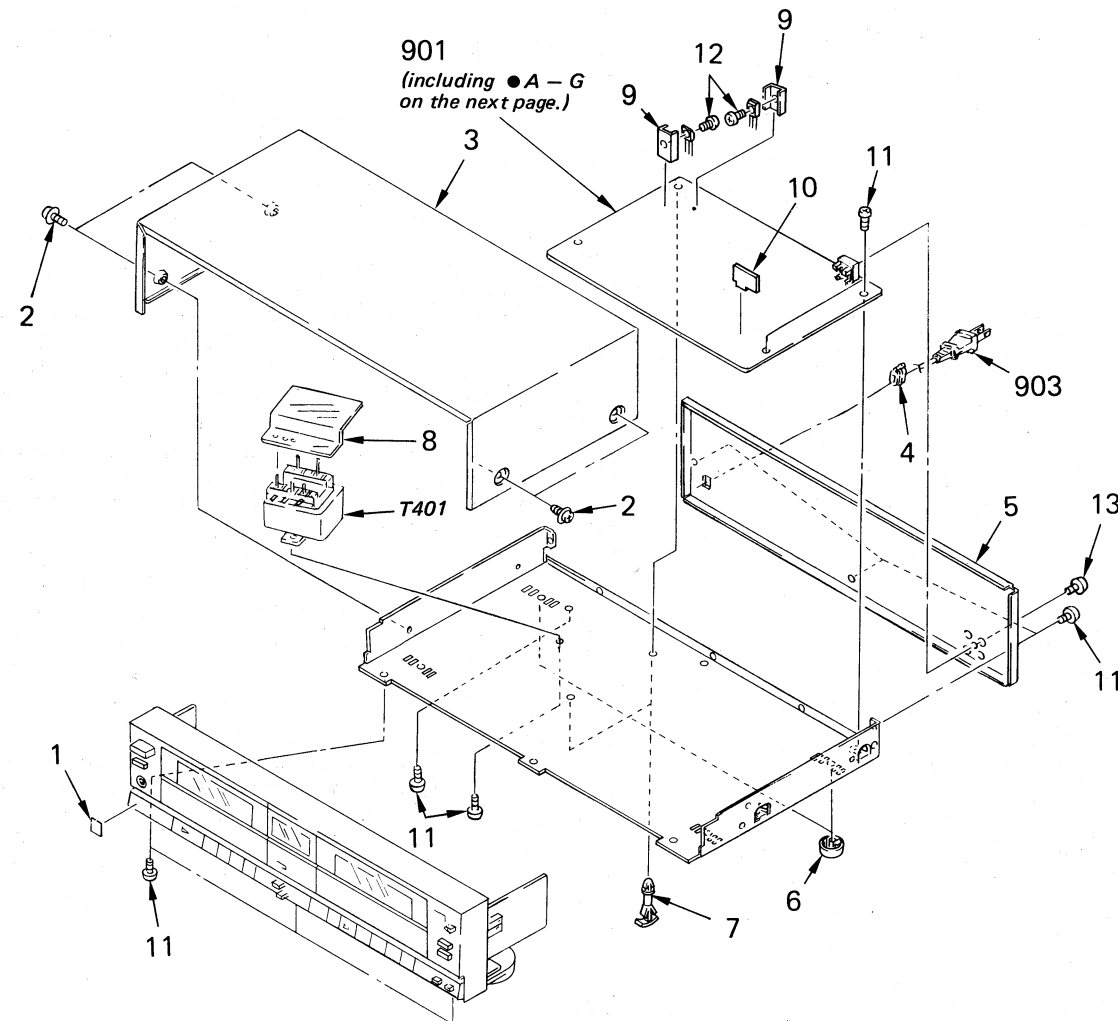
The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

(1)

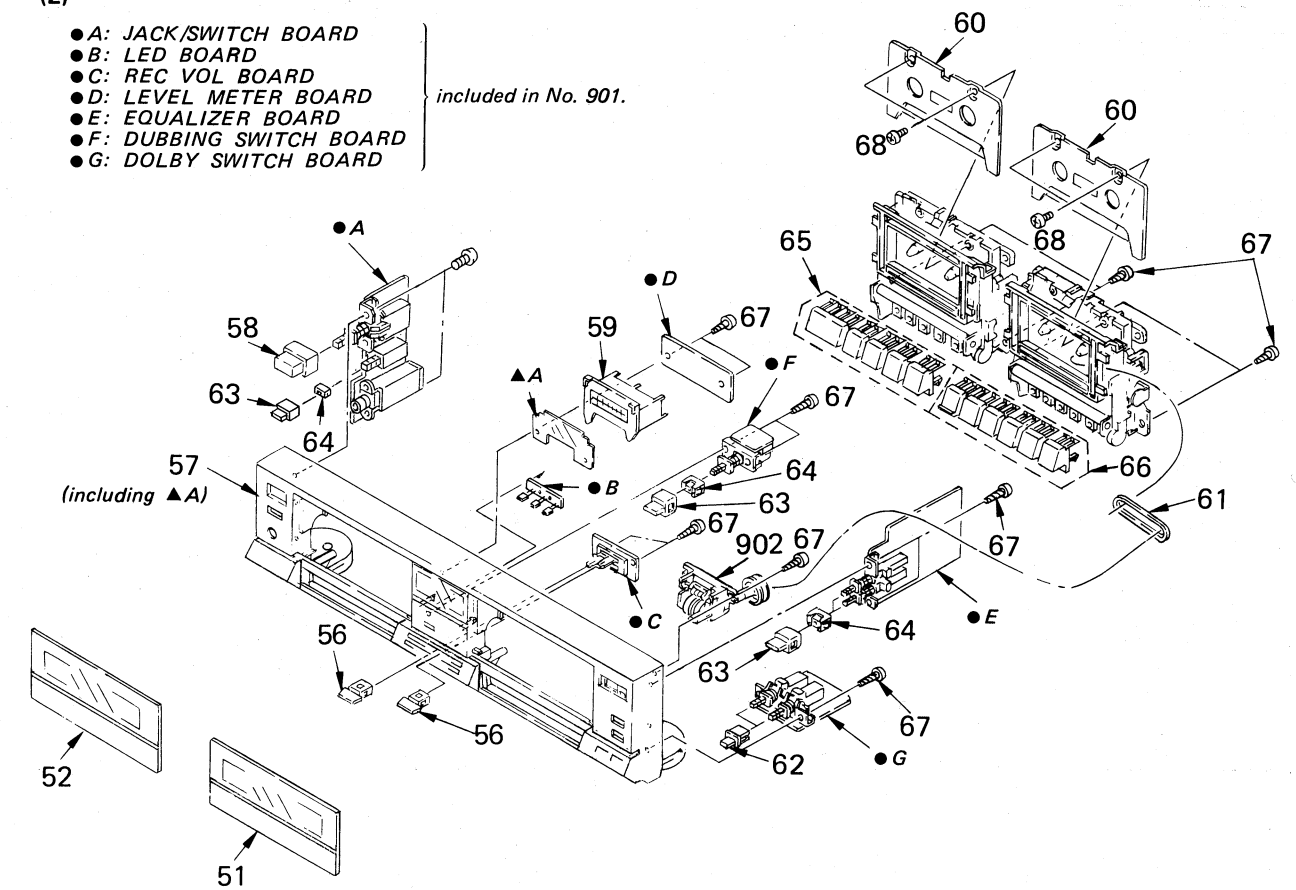


No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	*3-703-713-41	STICKER, SONY SYMBOL (10)		9	*4-880-403-11	HEAT SINK	
2	4-886-821-01	SCREW, M3 CASE		10	*3-329-941-01	PLATE, SHIELD	
3	*3-327-853-01	CASE		11	7-682-148-01	SCREW +BVTT 3X8 (S)	
4	*3-703-244-00	BUSHING (2104), CORD		12	7-682-547-09	SCREW +B 3X6	
5	*3-340-104-01	PANEL, BACK		13	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
6	X-3701-069-0	FOOT ASSY, M.F		901	*A-2056-374-A	MOUNTED PCB, AUDIO	
7	*3-704-198-31	SUPPORT, PC		903	▲.1-555-795-00	CORD, POWER, EULO PLUG	
8	*3-327-855-01	COVER (TRANSFORMER)		T401	▲.1-448-805-11	TRANSFORMER, POWER	

(2)

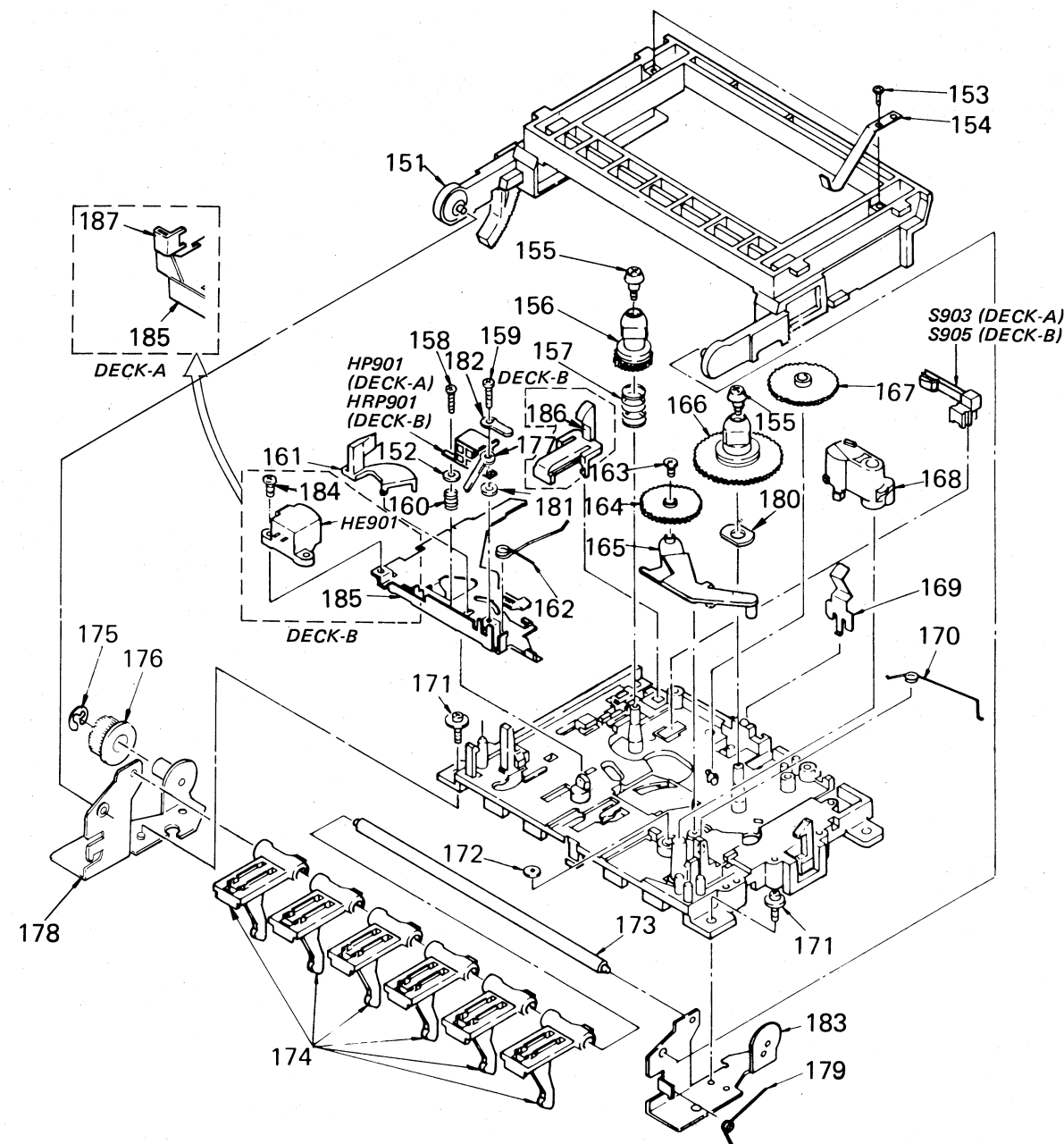
- A: JACK/SWITCH BOARD
- B: LED BOARD
- C: REC VOL BOARD
- D: LEVEL METER BOARD
- E: EQUALIZER BOARD
- F: DUBBING SWITCH BOARD
- G: DOLBY SWITCH BOARD

included in No. 901.



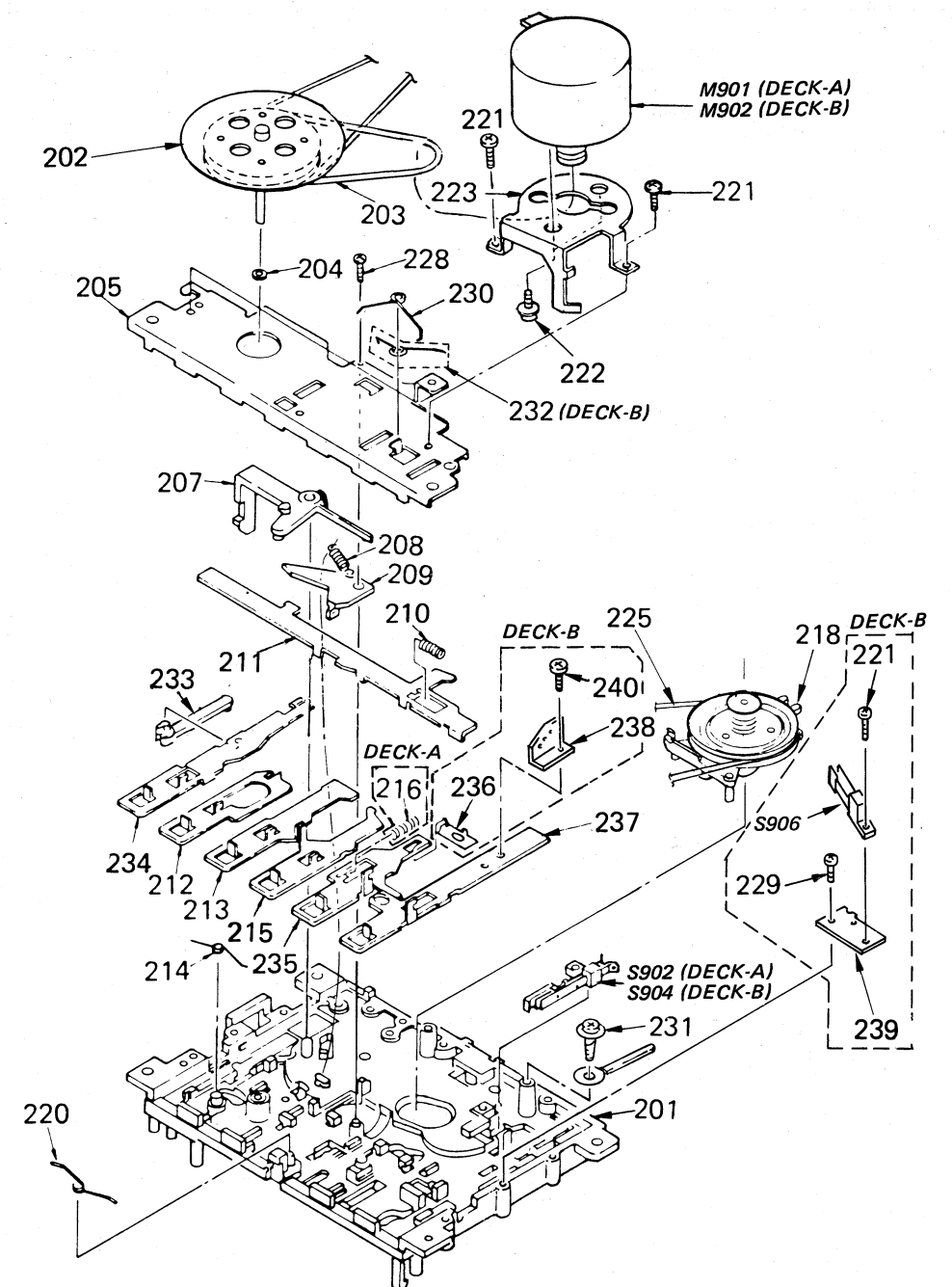
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	3-327-848-31	LID (B), CASSETTE		62	3-309-139-31	KNOB (C)	
52	3-327-848-21	LID (A), CASSETTE		63	3-318-909-11	KNOB, PUSH	
56	4-917-253-11	KNOB (B), SLIDE		64	*4-864-307-00	RING	
57	X-3332-463-1	PANEL ASSY		65	3-340-107-01	BUTTON BLOCK (A)	
58	4-917-460-01	KNOB, POWER		66	3-327-850-01	BUTTON BLOCK (B)	
59	*3-332-551-01	HOLDER, LED		67	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
60	4-914-974-01	PLATE, ORNAMENTAL, CASSETTE		68	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
61	3-530-181-XX	BELT, DETECTING		902	1-548-596-21	COUNTER, TAPE (MIDDLE TYPE)	

(3)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	3-390-801-01	CASE, CASSETTE		174	4-894-971-01	BUTTON LEVER	
152	3-390-823-01	WASHER, F		175	7-624-106-04	STOP RING 3.0, TYPE -E	
153	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT		176	4-895-001-01	GEAR	
154	4-894-951-01	KEEP PLATE		177	3-390-817-01	LUG	
155	3-390-803-01	BUSHING (D)		178	*4-894-972-01	BUTTON BRACKET R	
156	4-894-953-01	S REEL		179	4-894-973-01	SPRING	
157	4-894-954-01	C SPRING		180	3-390-820-01	SPRING, LEAF	
158	7-621-905-65	SCREW, TOTSU P 2X8		181	3-390-821-01	SPACER	
159	7-621-255-15	SCREW +P 2X3		182	3-390-819-01	LUG	
160	4-894-955-01	C SPRING		183	*4-895-017-01	BUTTON BRACKET L ASSY	
161	4-894-956-01	TAPE SENSOR		184	7-685-852-01	(DECK-B)...SCREW +BVT 2X5 (S)	
162	3-390-804-01	SPRING, PINCH ARM		185	4-894-957-01	(DECK-B)...HEAD BASE B	
163	4-894-960-01	BUSH			*4-895-015-01	(DECK-A)...HEAD BASE	
164	4-894-961-01	IDLER GEAR		186	4-894-958-01	(DECK-B)...INTERLOCK ARM	
165	4-894-962-01	IDLER ARM		187	4-895-016-01	(DECK-A)...TAPE GUDE	
166	4-894-963-01	T REEL ASSY		HE901	1-543-261-11	(DECK-B)...HEAD, ERASE (886-01-24)	
167	4-894-964-01	F GEAR		HP901	1-543-424-11	(DECK-A)...HEAD, MAGNETIC (REC/PB)	
168	3-390-805-01	ROLLER ASSY, PINCH		HRP901	1-543-424-11	(DECK-B)...HEAD, MAGNETIC (REC/PB)	
169	4-894-966-01	SPRING		S903	1-570-716-11	(DECK-A)...SWITCH, LEAF (FWD)	
170	4-894-967-01	SPRING		S905	1-570-716-11	(DECK-B)...SWITCH, LEAF (FWD)	
171	7-687-501-31	SCREW, TOTSU PTTWH 2.6X6					
172	4-894-969-01	N WASHER					
173	*4-894-970-01	BUTTON SHAFT W					

(4)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	4-894-968-01	CHASSIS ASSY		225	3-390-816-01	BELT, SQUARE	
202	3-390-806-01	FW ASSY		228	3-390-822-01	BUSHING (C)	
203	3-390-807-01	BELT		229	7-685-133-19	SCREW +P 2.6X6 TYPE1	
204	4-894-976-01	P WASHER		230	4-894-978-01	SPRING	
205	*4-894-977-01	BACK PLATE		231	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
207	*4-894-980-01	EJECT ARM		232	4-894-979-01	(DECK-B)...SPRING	
208	3-390-809-01	SPRING		233	4-894-985-01	PAUSE ARM	
209	4-894-982-01	S ARM		234	4-894-986-01	PAUSE LEVER	
210	4-894-983-01	C SPRING		235	3-390-810-01	LEVER, PLAY	
211	4-894-984-01	FUNCTION LEVER		236	3-390-811-01	(DECK-B)...LEVER, REC STOP	
212	4-894-987-01	S.E LEVER		237	*4-894-994-01	REC LEVER	
213	*4-894-988-01	FF LEVER W		238	*3-390-828-01	(DECK-B)...LEVER, RSW	
214	4-894-989-01	SPRING		239	*3-390-829-01	(DECK-B)...BRACKET, SW	
215	*4-894-990-01	REW LEVER		240	7-621-259-35	(DECK-B)...SCREW +PTT 2.6X5 (S)	
216	3-390-827-01	(DECK-A)...SPRING		M901	X-3390-801-1	(DECK-A)...MOTOR ASSY	
218	4-894-997-01	POWER ARM ASSY		M902	X-3390-801-1	(DECK-B)...MOTOR ASSY	
220	4-894-999-01	SPRING		S902	1-570-715-11	(DECK-A)...SWITCH, LEAF (MOTOR)	
221	7-685-781-04	SCREW +PTT 2X4 (S)		S904	1-570-715-11	(DECK-B)...SWITCH, LEAF (MOTOR)	
222	7-628-253-90	SCREW +PS 2.6X4		S906	1-571-037-11	(DECK-B)...SWITCH, LEAF (REC SW)	
223	*3-390-814-01	BRACKET, MOTOR					

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC303	8-759-106-41	IC UPC4570C
IC304	8-759-111-44	IC UPC4570C-1
IC305	8-759-111-44	IC UPC4570C-1
IC307	8-752-018-70	IC CX20187
IC309	8-759-601-43	IC M4066BP
IC401	8-759-601-10	IC M4011BP
IC402	8-759-601-29	IC M4030BP
IC403	8-759-601-48	IC M4073BP
J301	1-507-908-11	JACK, PIN 4P (LINE IN/LINE OUT)
J302	1-507-982-11	JACK (LARGE TYPE)(HEADPHONES)
L101	1-410-775-21	MICRO INDUCTOR 10MMH
L102	1-410-775-21	MICRO INDUCTOR 10MMH
L103	1-410-780-11	MICRO INDUCTOR 27MMH
L201	1-410-775-21	MICRO INDUCTOR 10MMH
L202	1-410-775-21	MICRO INDUCTOR 10MMH
L203	1-410-780-11	MICRO INDUCTOR 27MMH
LPF102	1-235-980-11	FILTER, LOW PASS
LPF202	1-235-980-11	FILTER, LOW PASS
M901	X-3390-801-1	(DECK-A)...MOTOR ASSY
M902	X-3390-801-1	(DECK-B)...MOTOR ASSY
Q101	8-729-600-27	TRANSISTOR 2SC634SP
Q102	8-729-806-38	TRANSISTOR 2SC3399
Q103	8-729-806-38	TRANSISTOR 2SC3399
Q104	8-729-600-27	TRANSISTOR 2SC634SP
Q105	8-729-178-54	TRANSISTOR 2SC2785
Q106	8-729-178-54	TRANSISTOR 2SC2785
Q201	8-729-600-27	TRANSISTOR 2SC634SP
Q202	8-729-806-38	TRANSISTOR 2SC3399
Q203	8-729-806-38	TRANSISTOR 2SC3399
Q204	8-729-600-27	TRANSISTOR 2SC634SP
Q205	8-729-178-54	TRANSISTOR 2SC2785
Q206	8-729-178-54	TRANSISTOR 2SC2785
Q302	8-729-600-27	TRANSISTOR 2SC634SP
Q303	8-729-600-27	TRANSISTOR 2SC634SP
Q304	8-729-281-53	TRANSISTOR 2SC1815GR
Q305	8-729-204-83	TRANSISTOR 2SA1048-GR
Q306	8-729-806-28	TRANSISTOR 2SC3402
Q401	8-729-600-27	TRANSISTOR 2SC634SP
Q402	8-729-600-27	TRANSISTOR 2SC634SP
Q403	8-729-107-26	TRANSISTOR 2SD1585-K
Q404	8-729-204-83	TRANSISTOR 2SA1048-GR
Q405	8-729-204-83	TRANSISTOR 2SA1048-GR
Q406	8-729-111-67	TRANSISTOR 2SB1094-L
Q407	8-729-806-20	TRANSISTOR 2SA1345

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q408	8-729-806-20	TRANSISTOR 2SA1345
Q409	9-986-159-01	TRANSISTOR 2SA1348
Q410	8-729-806-20	TRANSISTOR 2SA1345
Q411	8-729-806-20	TRANSISTOR 2SA1345
Q412	8-729-806-28	TRANSISTOR 2SC3399
Q413	8-729-806-28	TRANSISTOR 2SC3399
R101	1-249-417-11	CARBON 1K 5% 1/4W
R102	1-249-435-11	CARBON 33K 5% 1/4W
R109	1-249-417-11	CARBON 1K 5% 1/4W
R115	1-249-417-11	CARBON 1K 5% 1/4W
R116	1-249-417-11	CARBON 1K 5% 1/4W
R117	1-249-423-11	CARBON 3.3K 5% 1/4W
R118	1-249-429-11	CARBON 10K 5% 1/4W
R119	1-249-429-11	CARBON 10K 5% 1/4W
R120	1-249-423-11	CARBON 3.3K 5% 1/4W
R121	1-249-428-11	CARBON 8.2K 5% 1/4W
R122	1-215-412-00	CARBON 430 5% 1/4W
R123	1-215-436-00	CARBON 4.3K 5% 1/4W
R124	1-215-430-00	CARBON 2.4K 5% 1/4W
R125	1-249-427-11	CARBON 6.8K 5% 1/4W
R126	1-249-415-11	CARBON 680 5% 1/4W
R127	1-249-429-11	CARBON 10K 5% 1/4W
R128	1-249-421-11	CARBON 2.2K 5% 1/4W
R129	1-249-437-11	CARBON 47K 5% 1/4W
R130	1-249-429-11	CARBON 10K 5% 1/4W
R131	1-249-421-11	CARBON 2.2K 5% 1/4W
R132	1-215-450-00	CARBON 16K 5% 1/4W
R133	1-249-430-11	CARBON 12K 5% 1/4W
R134	1-215-446-00	CARBON 11K 5% 1/4W
R135	1-249-435-11	CARBON 33K 5% 1/4W
R136	1-247-704-11	CARBON 220 5% 1/4W
R137	1-215-440-00	CARBON 6.2K 5% 1/4W
R138	1-249-441-11	CARBON 100K 5% 1/4W
R139	1-249-433-11	CARBON 22K 5% 1/4W
R140	1-249-441-11	CARBON 100K 5% 1/4W
R141	1-249-441-11	CARBON 100K 5% 1/4W
R142	1-249-425-11	CARBON 4.7K 5% 1/4W
R143	1-249-425-11	CARBON 4.7K 5% 1/4W
R144	1-215-479-00	CARBON 270K 5% 1/4W
R145	1-249-404-00	CARBON 82 5% 1/4W
R146	1-215-472-00	CARBON 130K 5% 1/4W
R147	1-247-849-00	CARBON 5.6K 5% 1/4W
R148	1-249-421-11	CARBON 2.2K 5% 1/4W
R149	1-249-429-11	CARBON 10K 5% 1/4W
R150	1-249-430-11	CARBON 12K 5% 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R151	1-215-479-00	CARBON	270K	5%	1/4W
R152	1-249-404-00	CARBON	82	5%	1/4W
R153	1-215-472-00	CARBON	130K	5%	1/4W
R154	1-247-849-00	CARBON	5.6K	5%	1/4W
R155	1-249-417-11	CARBON	1K	5%	1/4W
R156	1-249-441-11	CARBON	100K	5%	1/4W
R157	1-247-887-00	CARBON	220K	5%	1/4W
R158	1-249-431-11	CARBON	15K	5%	1/4W
R159	1-247-887-00	CARBON	220K	5%	1/4W
R160	1-249-427-11	CARBON	6.8K	5%	1/4W
R161	1-249-421-11	CARBON	2.2K	5%	1/4W
R162	1-247-887-00	CARBON	220K	5%	1/4W
R163	1-215-466-00	CARBON	75K	5%	1/4W
R164	1-249-430-11	CARBON	12K	5%	1/4W
R165	1-249-441-11	CARBON	100K	5%	1/4W
R166	1-249-408-11	CARBON	180	5%	1/4W
R167	1-249-429-11	CARBON	10K	5%	1/4W
R168	1-249-421-11	CARBON	2.2K	5%	1/4W
R169	1-249-414-11	CARBON	560	5%	1/4W
R170	1-215-436-00	CARBON	4.3K	5%	1/4W
R171	1-249-441-11	CARBON	100K	5%	1/4W
R172	1-249-410-11	CARBON	270	5%	1/4W
R174	1-249-435-11	CARBON	33K	5%	1/4W
R201	1-249-417-11	CARBON	1K	5%	1/4W
R202	1-249-435-11	CARBON	33K	5%	1/4W
R209	1-249-417-11	CARBON	1K	5%	1/4W
R215	1-249-417-11	CARBON	1K	5%	1/4W
R216	1-249-417-11	CARBON	1K	5%	1/4W
R217	1-249-423-11	CARBON	3.3K	5%	1/4W
R218	1-249-429-11	CARBON	10K	5%	1/4W
R219	1-249-429-11	CARBON	10K	5%	1/4W
R220	1-249-423-11	CARBON	3.3K	5%	1/4W
R221	1-249-428-11	CARBON	8.2K	5%	1/4W
R222	1-215-412-00	CARBON	430	5%	1/4W
R223	1-215-436-00	CARBON	4.3K	5%	1/4W
R224	1-215-430-00	CARBON	2.4K	5%	1/4W
R225	1-249-427-11	CARBON	6.8K	5%	1/4W
R226	1-249-415-11	CARBON	680	5%	1/4W
R227	1-249-429-11	CARBON	10K	5%	1/4W
R228	1-249-421-11	CARBON	2.2K	5%	1/4W
R229	1-249-437-11	CARBON	47K	5%	1/4W
R230	1-249-429-11	CARBON	10K	5%	1/4W
R231	1-249-421-11	CARBON	2.2K	5%	1/4W
R232	1-215-450-00	CARBON	16K	5%	1/4W
R233	1-249-430-11	CARBON	12K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R234	1-215-446-00	CARBON	11K	5%	1/4W
R235	1-249-435-11	CARBON	33K	5%	1/4W
R236	1-247-704-11	CARBON	220	5%	1/4W
R237	1-215-440-00	CARBON	6.2K	5%	1/4W
R238	1-249-441-11	CARBON	100K	5%	1/4W
R239	1-249-433-11	CARBON	22K	5%	1/4W
R240	1-249-441-11	CARBON	100K	5%	1/4W
R241	1-249-441-11	CARBON	100K	5%	1/4W
R242	1-249-425-11	CARBON	4.7K	5%	1/4W
R243	1-249-425-11	CARBON	4.7K	5%	1/4W
R244	1-215-479-00	CARBON	270K	5%	1/4W
R245	1-249-404-00	CARBON	82	5%	1/4W
R246	1-215-472-00	CARBON	130K	5%	1/4W
R247	1-247-849-00	CARBON	5.6K	5%	1/4W
R248	1-249-421-11	CARBON	2.2K	5%	1/4W
R249	1-249-429-11	CARBON	10K	5%	1/4W
R250	1-249-430-11	CARBON	12K	5%	1/4W
R251	1-215-479-00	CARBON	270K	5%	1/4W
R252	1-249-404-00	CARBON	82	5%	1/4W
R253	1-215-472-00	CARBON	130K	5%	1/4W
R254	1-247-849-00	CARBON	5.6K	5%	1/4W
R255	1-249-417-11	CARBON	1K	5%	1/4W
R256	1-249-441-11	CARBON	100K	5%	1/4W
R257	1-247-887-00	CARBON	220K	5%	1/4W
R258	1-249-431-11	CARBON	15K	5%	1/4W
R259	1-247-887-00	CARBON	220K	5%	1/4W
R260	1-249-427-11	CARBON	6.8K	5%	1/4W
R261	1-249-421-11	CARBON	2.2K	5%	1/4W
R262	1-247-887-00	CARBON	220K	5%	1/4W
R263	1-215-466-00	CARBON	75K	5%	1/4W
R264	1-249-430-11	CARBON	12K	5%	1/4W
R265	1-249-441-11	CARBON	100K	5%	1/4W
R266	1-249-408-11	CARBON	180	5%	1/4W
R267	1-249-429-11	CARBON	10K	5%	1/4W
R268	1-249-421-11	CARBON	2.2K	5%	1/4W
R269	1-249-414-11	CARBON	560	5%	1/4W
R270	1-215-436-00	CARBON	4.3K	5%	1/4W
R271	1-249-441-11	CARBON	100K	5%	1/4W
R272	1-249-410-11	CARBON	270	5%	1/4W
R274	1-249-435-11	CARBON	33K	5%	1/4W
R301	1-247-704-11	CARBON	220	5%	1/4W
R302	1-247-704-11	CARBON	220	5%	1/4W
R303	1-249-429-11	CARBON	10K	5%	1/4W
R304	1-249-417-11	CARBON	1K	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/4W

ELECTRICAL PARTS


Ref.No.	Part No.	Description			
R306	1-249-431-11	CARBON	15K	5%	1/4W
R307	1-247-704-11	CARBON	220	5%	1/4W
R308	1-247-704-11	CARBON	220	5%	1/4W
R309	1-249-425-11	CARBON	4.7K	5%	1/4W
R313	1-249-404-00	CARBON	82	5%	1/4W
R314	1-247-688-11	CARBON	10	5%	1/4W
R315	1-249-433-11	CARBON	22K	5%	1/4W
R316	1-249-433-11	CARBON	22K	5%	1/4W
R317	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-249-427-11	CARBON	6.8K	5%	1/4W
R320	1-247-706-11	CARBON	330	5%	1/4W
R321	1-249-413-11	CARBON	470	5%	1/4W
R322	1-249-433-11	CARBON	22K	5%	1/4W
R323	1-249-441-11	CARBON	100K	5%	1/4W
R325	1-249-417-11	CARBON	1K	5%	1/4W
R326	1-215-469-00	METAL	100K	1%	1/6W
R401	1-247-717-11	CARBON	2.2K	5%	1/4W
R402	1-247-717-11	CARBON	2.2K	5%	1/4W
R403	1-247-717-11	CARBON	2.2K	5%	1/4W
R404	1-247-717-11	CARBON	2.2K	5%	1/4W
R405	1-249-425-11	CARBON	4.7K	5%	1/4W
R406	1-249-422-11	CARBON	2.7K	5%	1/4W
R407	1-249-420-11	CARBON	1.8K	5%	1/4W
R408	1-249-420-11	CARBON	1.8K	5%	1/4W
R409	1-249-408-11	CARBON	180	5%	1/4W
R410	1-249-420-11	CARBON	1.8K	5%	1/4W
R411	1-249-408-11	CARBON	180	5%	1/4W
R412	1-249-425-11	CARBON	4.7K	5%	1/4W
R413	1-249-437-11	CARBON	47K	5%	1/4W
R414	1-249-437-11	CARBON	47K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-437-11	CARBON	47K	5%	1/4W
R418	1-249-437-11	CARBON	47K	5%	1/4W
R419	1-247-887-00	CARBON	220K	5%	1/4W
R420	1-249-437-11	CARBON	47K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R422	1-249-437-11	CARBON	47K	5%	1/4W
R423	1-249-437-11	CARBON	47K	5%	1/4W
R424	1-249-427-11	CARBON	6.8K	5%	1/4W
R425	1-249-435-11	CARBON	33K	5%	1/4W
R426	1-249-437-11	CARBON	47K	5%	1/4W
R427	1-249-425-11	CARBON	4.7K	5%	1/4W
R428	1-249-437-11	CARBON	47K	5%	1/4W
R429	1-249-429-11	CARBON	10K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R430	1-249-417-11	CARBON	1K	5%	1/4W
R431	1-249-417-11	CARBON	1K	5%	1/4W
R432	1-249-417-11	CARBON	1K	5%	1/4W
R433	1-249-425-11	CARBON	4.7K	5%	1/4W
R434	1-249-425-11	CARBON	4.7K	5%	1/4W
R435	1-249-429-11	CARBON	10K	5%	1/4W
R436	1-215-430-00	CARBON	2.4K	5%	1/4W
R437	1-215-402-00	CARBON	160	5%	1/4W
R438	1-249-417-11	CARBON	1K	5%	1/4W
R439	1-249-417-11	CARBON	1K	5%	1/4W
RV101	1-228-994-00	RES, ADJ, CARBON 10K			
RV102	1-228-994-00	RES, ADJ, CARBON 10K			
RV103	1-228-994-00	RES, ADJ, CARBON 10K			
RV104	1-237-828-11	RES, VAR, SLIDE 20K (REC LEVEL:LEFT)			
RV201	1-228-994-00	RES, ADJ, CARBON 10K			
RV202	1-228-994-00	RES, ADJ, CARBON 10K			
RV203	1-228-994-00	RES, ADJ, CARBON 10K			
RV204	1-237-827-11	RES, VAR, SLIDE 20K (REC LEVEL:RIGHT)			
RV401	1-228-991-00	RES, ADJ, CARBON 2.2K			
RV402	1-228-990-00	RES, ADJ, CARBON 1K			
RV403	1-228-991-00	RES, ADJ, CARBON 2.2K			
RV404	1-228-990-00	RES, ADJ, CARBON 1K			
RY301	1-515-614-11	RELAY			
S302	1-570-531-11	SWITCH, PUSH (2 KEY)(DOLBY NR)			
S303	1-570-980-11	SWITCH, PUSH (2 KEY)(TAPE:DECK-B)			
S304	1-570-879-11	SWITCH, PUSH (1 KEY)(TAPE:DECK-A)			
S401	1-570-978-11	SWITCH, PUSH (1 KEY)(DUBBING SPEED)			
S402	1-570-103-21	SWITCH, PUSH (1 KEY)(POWER)			
S902	1-570-715-11	(DECK-A)...SWITCH, LEAF (MOTOR)			
S903	1-570-716-11	(DECK-A)...SWITCH, LEAF (FWD)			
S904	1-570-715-11	(DECK-B)...SWITCH, LEAF (MOTOR)			
S905	1-570-716-11	(DECK-B)...SWITCH, LEAF (FWD)			
S906	1-571-037-11	(DECK-B)...SWITCH, LEAF (REC SW)			
SPK101	1-235-186-00	ENCAPSULATED COMPONENT			
SPK201	1-235-186-00	ENCAPSULATED COMPONENT			
T301	1-433-303-11	TRANSFORMER, BIAS OSCILLATION			
T401	1-448-805-11	TRANSFORMER, POWER			

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-558-543-11	CORD, CONNECTION
*3-304-973-00	SHEET, PROTECTION
3-327-843-01	CUSHION
3-327-844-21	INDIVIDUAL CARTON
3-769-328-11	MANUAL, INSTRUCTION

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

TROUBLE CHECKS

Should any problem persist after you have made these checks, consult your nearest Sony service facility.
Before proceeding with these trouble checks, first check these basic points:

- The power cord must be firmly connected.
- Amplifier connections must be firmly made.

	Trouble	Cause and/or remedy
TAPE OPERATION BUTTONS AND TAPE TRANSPORT	The tape does not run when the operation button is pressed.	The cassette is not properly inserted.
		The cassette holder is not properly closed.
		The II button is depressed. ➡ Depress the II button again to release the pause mode.
	The transport noise seems excessively loud in rewind or fast forward mode.	No trouble. This situation depends upon the cassette used.
	The automatic shut-off mechanism activates before the end of the tape.	The cassette is defective.
	The ● button does not activate.	No cassette is in the holder.
		The cassette tab has been removed. ➡ Cover the hole with plastic tape.
	The fast forward or rewind mode does not shut off automatically.	No trouble. Press ■ ▲ to shut off the fast forward or rewind mode.
RECORDING AND PLAYBACK	Recording or playback cannot be made or there is a decrease in sound level.	The heads are dirty.
		The connections are not made properly.
		The input selector of the amplifier is not set to the correct position.
	Excessive wow and flutter or drop out	The heads, capstans or pinch rollers are dirty.
	Incomplete erasure	The erase head is dirty.
	Increase of noise or erasure	Magnetic build-up on the head. ➡ Demagnetize the head.
	Unbalanced tone in higher frequencies	The DOLBY NR switch is not set to the correct position. ➡ During playback, set the switch to the same position used in recording.
		The TAPE select switches are not set to the correct position during playback on deck B.
NOISE	A hum is heard	The deck is placed directly on or under the amplifier. ➡ Move the deck away from the amplifier.
	Noise is recorded	Recording is made near a television set or a color monitor. ➡ Move the deck away from the television set or color monitor.

SECTION 4

ELECTRICAL PARTS LIST

NOTE:

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ PF.

RESISTORS


• All resistors are in ohms.
• F : nonflammable

COILS

MMH : mH, UH : μ H

SEMICONDUCTORS

In each case, U : μ , for example:UA.... : μ A..., UPA.... : μ PA..., UPC.... : μ PC,UPD.... : μ PD...

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*A-2056-374-A	MOUNTED PCB, AUDIO			
902	1-548-596-21	COUNTER, TAPE (MIDDLE TYPE)			
903	A.1-555-795-00	CORD, POWER, EULO PLUG			
C103	1-124-925-11	ELECT	2.2MF	20%	50V
C104	1-124-925-11	ELECT	2.2MF	20%	50V
C105	1-124-499-11	ELECT	1MF	20%	50V
C106	1-124-925-11	ELECT	2.2MF	20%	50V
C107	1-162-290-31	CERAMIC	470PF	10%	50V
C108	1-162-282-31	CERAMIC	100PF	10%	50V
C109	1-136-157-00	FILM	0.022MF	5%	50V
C110	1-124-767-00	ELECT	2.2MF	20%	50V
C116	1-124-925-11	ELECT	2.2MF	20%	50V
C117	1-124-767-00	ELECT	2.2MF	20%	50V
C118	1-130-479-00	MYLAR	0.0047MF	5%	50V
C119	1-136-173-00	FILM	0.47MF	5%	50V
C120	1-136-167-00	FILM	0.15MF	5%	50V
C121	1-136-155-00	FILM	0.015MF	5%	50V
C122	1-136-169-00	FILM	0.22MF	5%	50V
C123	1-136-163-00	FILM	0.068MF	5%	50V
C124	1-136-161-00	FILM	0.047MF	5%	50V
C125	1-130-481-00	MYLAR	0.0068MF	5%	50V
C126	1-136-153-00	FILM	0.01MF	5%	50V
C127	1-124-925-11	ELECT	2.2MF	20%	50V
C129	1-162-290-31	CERAMIC	470PF	10%	50V
C130	1-162-282-31	CERAMIC	100PF	10%	50V
C131	1-136-157-00	FILM	0.022MF	5%	50V
C132	1-162-284-31	CERAMIC	150PF	10%	50V
C133	1-136-273-91	FILM	75PF	5%	630V
C134	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C135	1-161-327-00	CERAMIC	0.0033MF	30%	16V
C138	1-162-289-31	CERAMIC	390PF	10%	50V
C139	1-124-927-11	ELECT	4.7MF	20%	50V
C140	1-124-446-11	ELECT	47MF	20%	10V
C141	1-123-875-11	ELECT	10MF	20%	50V
C142	1-136-159-00	FILM	0.033MF	5%	50V
C143	1-136-153-00	FILM	0.01MF	5%	50V
C144	1-130-474-00	MYLAR	0.0018MF	5%	50V
C145	1-130-477-00	MYLAR	0.0033MF	5%	50V
C146	1-130-480-00	MYLAR	0.0056MF	5%	50V
C147	1-136-154-00	FILM	0.012MF	5%	50V
C148	1-130-478-00	MYLAR	0.0039MF	5%	50V
C149	1-130-471-00	MYLAR	0.001MF	5%	50V
C150	1-130-473-00	MYLAR	0.0015MF	5%	50V
C151	1-130-478-00	MYLAR	0.0039MF	5%	50V
C152	1-130-481-00	MYLAR	0.0068MF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C153	1-124-767-00	ELECT	2.2MF	20%	50V
C203	1-124-925-11	ELECT	2.2MF	20%	50V
C204	1-124-925-11	ELECT	2.2MF	20%	50V
C205	1-124-499-11	ELECT	1MF	20%	50V
C206	1-124-925-11	ELECT	2.2MF	20%	50V
C207	1-162-290-31	CERAMIC	470PF	10%	50V
C208	1-162-282-31	CERAMIC	100PF	10%	50V
C209	1-136-157-00	FILM	0.022MF	5%	50V
C210	1-124-767-00	ELECT	2.2MF	20%	50V
C216	1-124-925-11	ELECT	2.2MF	20%	50V
C217	1-124-767-00	ELECT	2.2MF	20%	50V
C218	1-130-479-00	MYLAR	0.0047MF	5%	50V
C219	1-136-173-00	FILM	0.47MF	5%	50V
C220	1-136-167-00	FILM	0.15MF	5%	50V
C221	1-136-155-00	FILM	0.015MF	5%	50V
C222	1-136-169-00	FILM	0.22MF	5%	50V
C223	1-136-163-00	FILM	0.068MF	5%	50V
C224	1-136-161-00	FILM	0.047MF	5%	50V
C225	1-130-481-00	MYLAR	0.0068MF	5%	50V
C226	1-136-153-00	FILM	0.01MF	5%	50V
C227	1-124-925-11	ELECT	2.2MF	20%	50V
C229	1-162-290-31	CERAMIC	470PF	10%	50V
C230	1-162-282-31	CERAMIC	100PF	10%	50V
C231	1-136-157-00	FILM	0.022MF	5%	50V
C232	1-162-284-31	CERAMIC	150PF	10%	50V
C233	1-136-273-91	FILM	75PF	5%	630V
C234	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C235	1-161-327-00	CERAMIC	0.0033MF	30%	16V
C238	1-162-289-31	CERAMIC	390PF	10%	50V
C239	1-124-927-11	ELECT	4.7MF	20%	50V
C240	1-124-446-11	ELECT	47MF	20%	10V
C241	1-123-875-11	ELECT	10MF	20%	50V
C242	1-136-159-00	FILM	0.033MF	5%	50V
C243	1-136-153-00	FILM	0.01MF	5%	50V
C244	1-130-474-00	MYLAR	0.0018MF	5%	50V
C245	1-130-477-00	MYLAR	0.0033MF	5%	50V
C246	1-130-480-00	MYLAR	0.0056MF	5%	50V
C247	1-136-154-00	FILM	0.012MF	5%	50V
C248	1-130-478-00	MYLAR	0.0039MF	5%	50V
C249	1-130-471-00	MYLAR	0.001MF	5%	50V
C250	1-130-473-00	MYLAR	0.0015MF	5%	50V
C251	1-130-478-00	MYLAR	0.0039MF	5%	50V
C252	1-130-481-00	MYLAR	0.0068MF	5%	50V
C253	1-124-767-00	ELECT	2.2MF	20%	50V
C303	1-124-446-11	ELECT	47MF	20%	10V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C304	1-124-444-00	ELECT	220MF	20%	10V
C305	1-124-444-00	ELECT	220MF	20%	10V
C306	1-124-446-11	ELECT	47MF	20%	10V
C307	1-124-446-11	ELECT	47MF	20%	10V
C308	1-141-225-00	CAP, TUNING, TRIMAR			
C309	1-124-499-11	ELECT	1MF	20%	50V
C310	1-124-925-11	ELECT	2.2MF	20%	50V
C311	1-130-482-00	MYLAR	0.0082MF	5%	50V
C312	1-130-478-00	MYLAR	0.0039MF	5%	50V
C313	1-130-478-00	MYLAR	0.0039MF	5%	50V
C314	1-124-902-00	ELECT	0.47MF	20%	50V
C315	1-124-499-11	ELECT	1MF	20%	50V
C316	1-124-446-11	ELECT	47MF	20%	10V
C317	1-124-446-11	ELECT	47MF	20%	10V
C318	1-124-444-00	ELECT	220MF	20%	10V
C319	1-124-444-00	ELECT	220MF	20%	10V
C320	1-136-562-11	FILM	0.0082MF	5%	630V
C321	1-162-294-31	CERAMIC	0.001MF	10%	50V
C322	1-162-294-31	CERAMIC	0.001MF	10%	50V
C323	1-161-494-00	CERAMIC	0.022MF		25V
C401	1-126-105-11	ELECT	1000MF	20%	35V
C402	1-124-555-00	ELECT	1000MF	20%	16V
C403	1-124-555-00	ELECT	1000MF	20%	16V
C404	1-126-101-11	ELECT	100MF	20%	16V
C405	1-126-101-11	ELECT	100MF	20%	16V
C406	1-124-446-11	ELECT	47MF	20%	10V
C407	1-124-472-11	ELECT	470MF	20%	10V
C408	1-124-472-11	ELECT	470MF	20%	10V
C409	1-162-294-31	CERAMIC	0.001MF	10%	50V
C410	1-162-294-31	CERAMIC	0.001MF	10%	50V
C411	1-123-875-11	ELECT	10MF	20%	50V
C412	1-123-875-11	ELECT	10MF	20%	50V
C413	1-161-494-00	CERAMIC	0.022MF		25V
C414	1-123-875-11	ELECT	10MF	20%	50V
C415	1-124-927-11	ELECT	4.7MF	20%	50V
CN308	*1-564-507-11	PLUG, CONNECTOR 4P			
CN309	*1-564-509-11	PLUG, CONNECTOR 6P			
CN310	*1-564-505-11	PLUG, CONNECTOR 2P			
CN401	*1-564-509-11	PLUG, CONNECTOR 6P			
CN402	*1-564-511-11	PLUG, CONNECTOR 8P			
CN408	*1-564-505-21	PLUG, CONNECTOR 2P			
D101	8-719-942-15	DIODE MPG3877S			
D102	8-719-942-15	DIODE MPG3877S			
D103	8-719-942-15	DIODE MPG3877S			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D104	8-719-942-15	DIODE MPG3877S
D105	8-719-302-74	DIODE SEL2210W
D106	8-719-302-74	DIODE SEL2210W
D107	8-719-302-74	DIODE SEL2210W
D201	8-719-942-15	DIODE MPG3877S
D202	8-719-942-15	DIODE MPG3877S
D203	8-719-942-15	DIODE MPG3877S
D204	8-719-942-15	DIODE MPG3877S
D205	8-719-302-74	DIODE SEL2210W
D206	8-719-302-74	DIODE SEL2210W
D207	8-719-302-74	DIODE SEL2210W
D301	8-719-940-76	DIODE 1SS132
D302	8-719-940-76	DIODE 1SS132
D401	8-719-200-77	DIODE 10E2N
D402	8-719-200-77	DIODE 10E2N
D403	8-719-200-77	DIODE 10E2N
D404	8-719-200-77	DIODE 10E2N
D405	8-719-933-33	DIODE HZS6A1L
D406	8-719-940-76	DIODE 1SS132
D407	8-719-940-76	DIODE 1SS132
D409	8-719-940-76	DIODE 1SS132
D411	8-719-940-76	DIODE 1SS132
D412	8-719-940-76	DIODE 1SS132
D413	8-719-940-76	DIODE 1SS132
D414	8-719-940-76	DIODE 1SS132
D415	8-719-940-76	DIODE 1SS132
D416	8-719-940-76	DIODE 1SS132
D417	8-719-940-76	DIODE 1SS132
D418	8-719-940-76	DIODE 1SS132
D419	8-719-940-76	DIODE 1SS132
D420	8-719-940-76	DIODE 1SS132
D421	8-719-940-76	DIODE 1SS132
D422	8-719-303-24	DIODE SEL1120W
D423	8-719-303-24	DIODE SEL1120W
D424	8-719-303-24	DIODE SEL1120W
D425	8-719-933-63	DIODE HZS11A1L
D426	8-719-933-36	DIODE HZS6B1L
HE901	1-543-261-11	(DECK-B)...HEAD, ERASE (886-01-24)
HP901	1-543-424-11	(DECK-A)...HEAD, MAGNETIC (REC/PB)
HRP901	1-543-424-11	(DECK-B)...HEAD, MAGNETIC (REC/PB)
IC101	8-759-912-79	IC IR2E02
IC201	8-759-912-79	IC IR2E02
IC302	8-759-600-02	IC M5218L